PATENT COOPERATION TREATY

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Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BET04L0037	FOR FURTHER ACT	TION	See Form PCT/IPEA/416						
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)						
PCT/FR2004/000779	26.03.2004		27.03.2003						
International Patent Classification (IPC) or	International Patent Classification (IPC) or national classification and IPC								
F16K31/08									
Applicant SAMES TECHNOLOGIES									
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total	of 6	sheets, including	g this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:									
a. (sent to the applicant	and to the International Bure	au) a total of	sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative									
Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
Box.									
b (sent to the Internation	onal Bureau only) a total of (in	ndicate type and numbe	er of electronic carrier(s))						
			, containing a sequence listing and/or tables						
	puter readable form only, as i ninistrative Instructions).	ndicated in the Supple	emental Box Relating to Sequence Listing (see						
4. This report contains indications	relating to the following items	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						
Box No. I Basis of	of the report								
Box No. II Priorit	у								
Box No. III Non-e	stablishment of opinion with re	egard to novelty, inven	tive step and industrial applicability						
Box No. IV Lack of	of unity of invention								
Box No. VI Certain									
Box No. VII Certain	Box No. VII Certain defects in the international application								
Box No. VIII Certain observations on the international application									
Date of submission of the demand	I	Date of completion of the	his report						
		•	· •						
Name and mailing address of the IPEA/EP		Authorized officer							
Facsimile No.		Colombos - N-							
Facsimile No.		Telephone No.							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FR2004/000779

Box No.	I Basis of the report							
	1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
E	international search (Rule 12.3 and 23.1(b))							
	publication of the international application (Rule 12.4)							
	international preliminary examination (Rule 55.2 and							
rec	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	the international application as originally filed/furnished							
	the description:							
	pages <u>1-15</u>	as originally filed/furnished						
	pages*	received by this Authority on						
	pages*	received by this Authority on						
\boxtimes	the claims:							
	nos. 1-17	as originally filed/furnished						
	nos.*	as amended (together with any statement) under Article 19						
	nos.*	received by this Authority on						
	nos.*	received by this Authority on						
	the drawings:							
	sheets 1/8-8/8	as originally filed/furnished						
	sheets*							
	sheets*							
	a sequence listing and/or any related table(s) – see Suppler							
		nental Box Relating to Sequence Listing.						
3	The amendments have resulted in the cancellation of:							
	the description, pages							
	the claims, nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
4.	4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).							
	the claims, nos.							
i i	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to sequence listing (specify):							
* If	* If item 4 applies, some or all of those sheets may be marked "superseded."							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY				International application No. PCT/FR2004/000779			
				ticle 35(2) with regard to novelty, invention	ive step or industrial applicability;		
1.	Statement	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
	Novelty	(N)	Claims Claims	1-17		YES	
	Inventive	e step (IS)	Claims	2-8		YES	
			Claims	1, 9-17		_ NO	
	Industria	l applicability (IA)	Claims	1-17		YES	
			Claims			_ NO	
2.	1.	In the present report, reference is made to the following documents: D1: EP 0 997 676 A (NORDSON CORP) 3 May 2000 (2000-05-03) (cited in the application); D2: US 6 092 545 A (BEDORE DANIEL BLAINE ET AL) 25 July 2000 (2000-07-25).					
	2.	INDEPENDE	NT CI	AIM 1			
	2.1	The prese	nt ap	plication does not	fulfil the		
		requireme	nts s	et forth in PCT Art	icle 33(1)		
		because t	he su	bject matter of cla	im 1 does not		

- involve an inventive step as defined in PCT Article 33(3).
- 2.1.1 Document D1, which is considered to be the prior art closest to the subject matter of claim 1, describes (the references between parentheses apply to said document):
 - a valve (10) that includes a body (12) having a

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

needle (16) mobile therein, wherein said needle (16) is sealingly engageable with a seat (18) rigidly connected to said body (12) and is magnetically coupled, via a sealed, non-magnetic partition (34), to a drive member (58) provided with a plurality of magnets (72) that have magnetic bodies (70) inserted therebetween.

- 2.1.2 It follows that the subject matter of claim 1 differs from the teaching in D1 in that:
 - said needle does not have any magnets.
- 2.1.3 The problem that the present invention is intended to solve can therefore be considered to arise from the fact that:
 - with permanent magnets, the manufacturing and positioning tolerances are such that the air gap between the needle and the corresponding drive member must be relatively large in order to avert frictional forces, which prevent proper valve operation.
- 2.1.4 The solution proposed in claim 1 of the present application is not considered to be inventive (PCT Article 33(3)), for the following reasons:

The features in said claim (a needle without any magnets) have already been used for the same purpose in a similar valve (a magnetically biased

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

non-return valve) (see D2, column 2, lines 60-65). It would be obvious for a person skilled in the art to use these features with a corresponding effect in a valve as per document D1 and thereby arrive at a valve as per claim 1.

- 2.1.5 As a result, a person skilled in the art seeking to solve the stated problem would combine the features described in documents D1 and D2 without having to exercise any inventive skill. The solution proposed in independent claim 1 cannot, therefore, be considered to involve an inventive step (PCT Article 33(3)).
- 2.1.6 What is more, the above feature (a needle without any magnets) is merely one of a plurality of obvious options that a person skilled in the art might select in order to solve the stated problem (of avoiding the mounting of permanent magnets on the needle by using a needle made of a magnetic material), depending on each particular case, and without an inventive step being involved.
- 3. DEPENDENT CLAIMS 9-17

These claims do not contain any features which, in combination with the features of any one of the claims to which they refer, might fulfil the PCT requirements of novelty and inventive step (PCT Article 33(2) and 33(3)).

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3.1 DEPENDENT CLAIMS 2-8

The combination of features in claims 2-8 is not found in the prior art and cannot be derived in an obvious manner therefrom, for the following reasons:

None of the documents cited in the search report or mentioned in the description discloses these features (a needle provided with magnetic ribs) and it would not be obvious for a person skilled in the art to use these features in a valve as per document D1.